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WHAT IS CLAIMED IS:

- 1. A vibration element for a vibration wave driving apparatus, comprising:
 - a first elastic member;
- 5 a second elastic member;

an electro-mechanical energy conversion element that is disposed between the first elastic member and the second elastic member; and

a third elastic member that is disposed between the first elastic member and the electro-mechanical energy conversion element and has a large diameter than that of the electro-mechanical energy conversion element,

wherein when a driving signal is applied to the electro-mechanical energy conversion element, a first travelling wave is excited at a frictional surface of the third elastic member by bending vibrations which are displaced in a direction orthogonal to axial direction of the vibration element and a second travelling wave is also excited at the frictional surface by out-of-plane bending vibrations of the third elastic member.

A vibration element according to claim 1,
 wherein the driving signal applied to the electromechanical energy conversion element is used for exciting the bending vibrations which are displaced in

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a direction orthgonal to axial direction of the vibration element.

- 3. A vibration element for a vibration wave driving apparatus, comprising:
 - a first elastic member;
 - a second elastic member;

an electro-mechanical energy conversion element that is disposed between the first elastic member and the second elastic member; and

a third elastic member that is disposed between the first elastic member and the second elastic member and has a larger outer diameter than that of the electro-mechanical energy conversion element,

position that does not allow a center portion of the third elastic member in an axial direction of the vibration element to coincide with a center of an antinode of a bending vibrations which are displaced in a direction orthogonal to the axial direction.

- 4. A vibration element for a vibration wave driving apparatus, comprising:
 - a first elastic member;
 - a second elastic member;

an electro-mechanical energy conversion element that is disposed between the first elastic member and

the second elastic member; and

a third elastic member that is disposed between the first elastic member and the second elastic member, in which an out-of-plane bending vibration in a plane orthogonal to an axial direction of the first elastic member and the second elastic member is excited by a bending vibrations which are displaced in a direction orthogonal to the axial direction.

- 5. A vibration element according to claim 1, wherein the first elastic member and the third elastic member are formed integrally.
- 6. A vibration element according to claim 3,
 wherein the first elastic member and the third elastic member are formed integrally.
- A vibration element according to claim 4,
 wherein the first elastic member and the third elastic
 member are formed integrally.
 - 8. A vibration wave driving apparatus, comprising:

a vibration element including a third elastic

member and an electro-mechanical energy conversion
element that are disposed between a first elastic
member and a second elastic member; and

a rotor that is brought into contact with a frictional surface of the third elastic member,

wherein when a driving signal is applied to the electro-mechanical energy conversion element, the vibration element excites a first travelling wave at the frictional surface by a bending vibrations which are displaced in a direction orthogonal to an axial direction of the vibration element and a second travelling wave at the frictional surface by an out-of-plane bending vibrations of the third elastic member, and a circular or an elliptical movements is produced at the frictional surface by a vibration wave as a composite of the first travelling wave and the second travelling wave.

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- 9. A vibration element according to claim 8, wherein the driving signal applied to the electromechanical energy conversion element is used for exciting the bending vibrations which are displaced in a direction orthogonal to axial direction of the vibration element.
- 10. A vibration wave driving apparatus, comprising:
- a vibration element including an electromechanical energy conversion element and a third elastic member that are disposed between a first

elastic member and a second elastic member, the third elastic member having a frictional surface and a larger outer diameter than that of the electro-mechanical energy conversion element; and

a rotor that is brought into contact with the frictional surface of the vibration element,

wherein the vibration element excites a bending vibrations which are displaced in a direction orthogonal to an axial direction of the first elastic member and the second elastic member through application of a driving signal to the electromechanical energy conversion element, and

a center of an anti-node of the bending vibration does not coincide with a center portion of the third elastic member in an axial direction of the vibration element.

11. A vibration wave driving apparatus, comprising:

a vibration element including an electromechanical energy conversion element and a third elastic member that are disposed between a first elastic member and a second elastic member; and

a rotor that is brought into contact with a frictional surface of the vibration element,

wherein the vibration element excites an out-ofplane bending vibration in a plane orthogonal to an

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axial direction of the vibration element in the third elastic member by a bending vibrations which are displaced in a direction orthogonal to the axial direction.

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12. A vibration wave driving apparatus, comprising:

a vibration element including:
an electro-mechanical energy conversion element;
a third elastic member that extends in a direction
orthogonal to an axial direction of the vibration wave
driving apparatus and has a frictional surface on its
outer peripheral side with respect to the electromechanical energy conversion element;

a first elastic member that extends in the axial direction of the vibration wave driving apparatus from a surface having the frictional surface of the third elastic member;

a second elastic member; and

a rotor that is brought into contact with the frictional surface of the vibration element,

wherein when a plurality of driving signals that are different in phase are applied to the electromechanical energy conversion element, the vibration element excites a plurality of bending vibrations which are displaced in a direction orthogonal to an axis of the vibration element to produce a first travelling

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wave at the frictional surface and excites a bending vibration in an out-of-plane direction of the third elastic member to produce a second travelling wave at the frictional surface.

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- 13. A vibration wave driving apparatus according to claim 12, wherein the electro-mechanical energy conversion element is disposed on an opposite side to the first elastic member with the third elastic member interposed therebetween.
- 14. A vibration wave driving apparatus according to claim 8, wherein a center portion in the axial direction of the third elastic member does not coincide with a center of an anti-node of the bending vibrations which are displaced in a direction orthogonal to the axial direction of the vibration element.
- to claim 11, wherein a center portion in the axial direction of the third elastic member does not coincide with a center of an anti-node of the bending vibrations which are displaced in a direction orthogonal to the axial direction of the vibration element.

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16. A vibration wave driving apparatus according to claim 12, wherein a center portion in the axial

direction of the third elastic member does not coincide with a center of an anti-node of the bending vibrations which are displaced in a direction orthogonal to the axial direction of the vibration element.

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17. A vibration wave driving apparatus according to claim 8, wherein the first elastic member and the third elastic member are formed integrally.

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18. A vibration wave driving apparatus according to claim 10, wherein the first elastic member and the third elastic member are formed integrally.

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19. A vibration wave driving apparatus according to claim 11, wherein the first elastic member and the third elastic member are formed integrally.

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20. A vibration wave driving apparatus according to claim 12, wherein the first elastic member and the third elastic member are formed integrally.

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21. A vibration wave driving apparatus according to claim 8, wherein at least one of end portions of the vibration element has an increased diameter.

22. A vibration wave driving apparatus according to claim 10, wherein at least one of end portions of

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the vibration element has an increased diameter.

- 23. A vibration wave driving apparatus according to claim 11, wherein at least one of end portions of the vibration element has an increased diameter.
- 24. A vibration wave driving apparatus according to claim 12, wherein at least one of end portions of the vibration element has an increased diameter.

25. A vibration wave driving apparatus according to claim 8, wherein the third elastic member includes a thinner portion than a portion at which the frictional surface is located, on an inner peripheral side with respect to the frictional surface.

- 26. A vibration wave driving apparatus according to claim 10, wherein the third elastic member includes a thinner portion than a portion at which the frictional surface is located, on an inner peripheral side with respect to the frictional surface.
- 27. A vibration wave driving apparatus according to claim 11, wherein the third elastic member includes a thinner portion than a portion at which the frictional surface is located, on an inner peripheral side with respect to the frictional surface.

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28. A vibration wave driving apparatus according to claim 12, wherein the third elastic member includes a thinner portion than a portion at which the frictional surface is located, on an inner peripheral side with respect to the frictional surface.

- 29. A vibration wave driving apparatus according to claim 8, wherein the vibration element further includes another electro-mechanical energy conversion element that is fixed to the third elastic member.
- 30. A vibration wave driving apparatus according to claim 10, wherein the vibration element further includes another electro-mechanical energy conversion element that is fixed to the third elastic member.
- 31. A vibration wave driving apparatus according to claim 11, wherein the vibration element further includes another electro-mechanical energy conversion element that is fixed to the third elastic member.
- 32. A vibration wave driving apparatus according to claim 12, wherein the vibration element further includes another electro-mechanical energy conversion element that is fixed to the third elastic member.